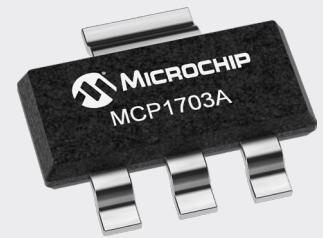


MCP1703A

Low-Dropout Voltage Regulator with 2 μ A Quiescent Current

General Information

The MCP1703A is a CMOS, low-dropout voltage regulator with 250 mA maximum output current. MCP1703A works with input voltages up to 16V and with its low 2 μ A current consumption it is an ideal solution for applications using multi-cell, 9V alkaline or one-, two- or three- cell lithium-ion batteries. It is available in space-efficient SOT23A and SOT89 packages; or in a thermally capable 3-pin SOT223 and 8-pin 2 \times 3 DFN.



Features

- 2.0 μ A quiescent current (typical)
- Wide input operating voltage range: 2.7V–16.0V
- Low dropout voltage – typically 750 mV or less at 250 mA output current
- High 250 mA output current for output voltages = 2.5V, up to 230 mA output current for output voltages < 2.5V (input voltage dependent)
- High output voltage accuracy: 0.4% (typical)
- Output voltage range 1.2V–5.5V in 0.1V increments
- Stable with 1.0 μ F to 22 μ F output capacitors
- Short-circuit protection
- Overtemperature protection
- Reduced ground current during dropout
- Multiple packages: 3-pin SOT-23A, 3-pin SOT-89, 3-pin TO-92, and 2 \times 3 DFN-8

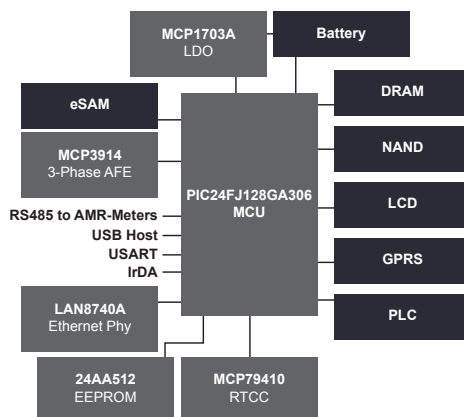
Applications

- Camera modules for consumer and computing products
- IoT devices
- Drones
- Smart devices

Benefits

- High output voltage accuracy
- Stability with ceramic capacitor
- Wide range of features: shutdown mode

Metering Concentrator



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